I-10: LA 415 to Essen Lane on I-10 and I-12

October 2023
Project Briefing
TOTAL PROJECT LIMITS

LA 415 TO ESSEN LANE ON I-10 AND I-12
MEMBERS ON THE I-10 CMAR* PROJECT

FHWA

LADOTD
OWNER

KIEWIT-BOH
CONTRACTOR

COREX10
DESIGNER

KREBS
ICE

* CMAR = Construction Manager At Risk
PURPOSE AND NEED OF I-10 IMPROVEMENTS
1. Additional capacity in each direction is needed to alleviate congestion and reduce travel times.

2. Update the current design by:
   • Addition of shoulders for emergency use
   • Longer acceleration and deceleration lanes for increased merge distance
   • Lane arrangements that reduce weaving
   • Extend the life expectancy of existing infrastructure; replace structures
**ANTICIPATED BENEFITS OF FULL PROJECT COMPLETION**

**TRAVEL TIME REDUCTIONS**

- The additional through-lanes provide additional capacity, reducing congestion.
- Traffic modeling suggests that post-construction travel times may be reduced anywhere from 2% to 18% during peak travel times from the Mississippi River Bridge to the I-10/I-12 split.
  - This variability depends upon the direction of travel and morning or afternoon peak travel.
  - Assume time reductions at date of completion of total project.
  - Assumes exiting and post-construction volumes will be the same for the purpose of comparison.
  - This assumes no incidents block lanes, free-flowing traffic conditions.
  - These time improvements on I-10 do not reflect construction of the other regional mega projects.
REGIONAL MEGA-PROJECTS

DOTD SPONSORED:

- Improving I-10 (Construction)
- New south bridge (NEPA)
- North Bypass (Statewide Plan)
- LA1 to LA 415 Connector (Design)
- Widen I-10, LA 73 to LA 22 (Planning)
- Widen I-12, Satsuma to Hammond (Planning)
ANTICIPATED BENEFITS OF FULL PROJECT COMPLETION

SUMMARY

- Commuters need **predictability** and **reliability** as they travel on I-10 through Baton Rouge.
- Improvements to I-10 will **reduce congestion** and allow drivers to plan their trips with increased assurance that they will reach their destination at the scheduled time.
- Safety benefits of the project include a nearly **10% reduction of anticipated crashes**, and even greater reductions in fatality or injury causing crashes.
- Improved infrastructure includes noise reduction, community connections and **context sensitive solutions**, providing **amenities** to area residents and visitors.
SEGMENT 1 PROJECT LIMITS

WEST OF WASHINGTON STREET TO EAST OF ACADIAN THRUWAY
Baton Rouge – The Louisiana Department of Transportation and Development (DOTD) is exploring options for stage 2 of the I-10 reconstruction and widening project between I-110 and Acadian Thruway. Stage 2 of construction is currently set to begin in early 2025. The decision to examine other options stems from the public meeting held on March 7, 2023, in which concerns were expressed about traffic impacts and construction time.

DOTD and its I-10 widening project team are evaluating traffic management options comparing maintaining two lanes versus three lanes in each direction during stage 2 construction. Schedule, cost, traffic impacts, and supply chain reliability are all being considered. The analysis should be completed by December 2023, at which time the department will submit the results to the Federal Highway Administration for review.

Current construction work will not be impacted by the stage 2 traffic management analysis.

DOTD will keep the public updated throughout the entire process. For information regarding the widening project, please visit i10br.com.
**Stage 1 (2023 - 2025)**
Permanent construction of WB City Park Lake Bridge and EB Service Road; Widen Westbound Flyover Curve towards Mississippi River Bridge; Temporary Widening of Westbound, Acadian to I-110

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**Stage 2 (2025 - 2026)**
Demo & Rebuild Eastbound Bridges (12 - 16 month duration)

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**Stage 3 (2026 - 2027)**
Lane shifts, Restoration to 3 Lanes Each Direction

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**Stage 4 (2027 - 2028)**
Shift traffic to new EB lanes; Demo & Rebuild Westbound Bridges; (open 4-lanes each direction on I-10 at end of Stage 4)

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**Stage 5 (2028)**
Complete Construction

*Possibly 3 lanes each direction, pending DOTD decision.*
*Minimum 2 lanes each direction on I-10 mainline.*

*Subject to Change*
I-10 CMAR

Greenfield sequence of Construction to maintain traffic

I-10 Washington Bridge
PROPOSED FLYOVER WIDENING
I-10 WESTBOUND

STAGE 1

Approximately 21 months
(EWP 3R, 3a, 3b)

Late 2023 — 2025

LOCATION MAP

Downtown Baton Rouge

Cantilever Widening

Widening on New Substructure
STAGE 1
(EWP 3R, 3a, 3b)  Approximately 21 months
2023 – 2025

Mainline traffic to have 3 lanes open in each direction

Temporary widening of westbound bridge
Overpass temporarily widened to accommodate 4 or 6 traffic lanes based on analysis.

I-10 eastbound closed

I-10 eastbound crossover

STAGE 2
(EWP EB) Approximately 12 to 16 months ANTICIPATED TO BEGIN 4th QUARTER 2025
STAGE 2

Approximately 16 months
ANTICIPATED TO BEGIN 2025

I-10 AT I-110 DOWNTOWN BATON ROUGE

Widening on
New
Substructure

CROSS SECTION VIEW

Proposed Widening of I-10 Westbound “Flyover” Curve at I-110 Interchange

Subject to Change

Approximately 16 months
ANTICIPATED TO BEGIN 2025

Cantilever
Widening

Washington St. traffic to exit I-110 southbound at Terrace Ave.
STAGE 3

(EWP EB) Approximately 10 months
ANTICIPATED TO BEGIN LATE 2026

Mainline traffic to have 3 lanes open in each direction
STAGE 4
(Segment 1 GMP) Approximately 12 months
ANTICIPATED TO OCCUR 2027 - 2028

I-10 westbound closed

I-10 westbound crossover

Mainline traffic to have 3 lanes open in each direction
STAGE 5
(Segment 1 GMP)  Approximately 6 months
ANTICIPATED TO BEGIN 2028

3 lanes open in each direction
4 lanes open in each direction

FINAL
CONSTRUCTION COMPLETE LATE 2028
ALTERNATE CORRIDORS DURING CONSTRUCTION

- Adaptive Signal Corridors
- Adaptive Signal or Timing/Phasing Adjustment Corridors
- Primary Alternate Routes
- Secondary Alternate Routes
- Local Alternate Routes
MAINTENANCE OF TRAFFIC DURING CONSTRUCTION

Photo July 20, 2023
TRAFFIC MITIGATION DURING CONSTRUCTION:

1. Offsite Improvements:
   new temporary signal, striping and signing improvements on existing roadways

2. Adaptive Signal Timing on major alternate routes
TRAFFIC MITIGATION DURING CONSTRUCTION:

3. Statewide Advance Signing on I-10, I-20, and I-49 to suggest alternate routes
MAINTENANCE OF TRAFFIC / CONSTRUCTABILITY

TRAFFIC MITIGATION DURING CONSTRUCTION:

4. Queue Detection System

SYSTEM FEATURES

- Portable Vehicle Sensors and Message boards for swift deployment and flexibility of relocation
- Proven radar technology for accurate speed & count
- Pick up vehicle speeds for up to 3 lanes
- Video Traffic Monitoring using CCTV Camera Trailers
- Battery bank sized for 30-day autonomy
- Digital cellular communications

AUTOMATED QUEUE WARNING OBJECTIVES

- Improve worker & motorist safety
- Decrease motorist speeds approaching work zones
- Reduce work zone rear-end collisions
- Provide real-time information to motoring public
MAINTENANCE OF TRAFFIC / CONSTRUCTABILITY

TRAFFIC MITIGATION DURING CONSTRUCTION:

5. Evaluate changes to transit delivery schedules for optimum route timing

6. Working with trucking industry for corridor avoidance, and/or off-peak trips

7. Peak Hour Traffic Reductions due to work schedule adjustments for State agencies

8. Encourage local businesses, industry and universities to offer flex schedules and remote work/study

9. Encourage ride sharing
MAINTENANCE OF TRAFFIC / CONSTRUCTABILITY

TRAFFIC MITIGATION DURING CONSTRUCTION:

10. Presence of additional MAP trucks / Quick Response Team
11. Presence of dedicated law enforcement at head of queues, and additional officers patrolling corridor
12. Regional coordination among law enforcement agencies
13. Promotion of DOTD’s 511 service and app
INCIDENT MANAGEMENT PLAN
INCIDENT MANAGEMENT TASK FORCE

Tasks
- Planning & Coordination
- Regular Task Force Meetings
- Traffic Incident Management (TIM) Training

Members
- LADOTD
- BRPD
- BRFD
- EMS
- MAP
- TMC
- LSP
- WBRSO
- EBRSO
- Traffic Consultants
- KB
- COREX10
Roster

- 2 MAP trucks (maintenance contract)
- Quick Response Teams, each consists of:
  - 1 MAP Truck
  - 1 Tow Truck
  - 1 Officer
- 1 Heavy haul tow truck
- Queue officers

Tools

- Traffic Gates
- MAP Trucks with pushing and pulling capabilities
- Queue detection system
- 10 Additional temporary CCTVs
- Contractor: 4 truck mounted attenuators
The following exhibits are for illustrative purposes and are subject to change as designs are refined.
WASHINGTON STREET AREA

VIEW FROM INSIDE ACTIVITY NODE

- Graffiti Wall
- Durable, Low Maintenance Hardscape
- Ball Court
NOISE WALLS  Design Options

Transparent Acrylic

Opaque Acrylic
PERKINS ROAD AREA

PERKINS ROAD UNDER I-10 WESTBOUND LOOKING TOWARDS HOLLYDALE AVENUE

- Safety and decorative lighting
- Sidewalks & pedestrian plazas
- Limited Landscaping
PERKINS ROAD AREA

BIRD'S EYE VIEW OF EXTENDED PARKING LOT ENTRANCE FROM PERKINS ROAD AND GLENDALE AVENUE

RIGHT-OF-WAY
Formerly Occupied by Ramps

PERKINS BRIDGE AREA
CURRENT CONSTRUCTION ACTIVITY

• **SURVEYING / ROW UTILITIES**
  • Land / topographic surveying and utility work within State right-of-way
  • ROW clearing along E. Harrison, Braddock, Lorri Burgess (E. Washington)

• **BUILDING SURVEYS**
  • Pre-construction building condition surveys along corridor, residential and institutional. Establish a benchmark of conditions.

• **PILINGS**
  • Test drilled shafts for pilings within Segment 1 corridor
  • Driving of piles within City Park Lake north side of I-10 for bridge

• **EQUIPMENT MOBILIZATION**
  • Placement of heavy equipment for construction
UPCOMING CONSTRUCTION ACTIVITY

- CITY PARK LAKE BRIDGE & I-10 MAINLINE
  - Installation of foundation & equipment mobilization
  - Interim lane closures of Dalrymple, mostly at night.
  - Extended closure of E. Lakeshore Drive beneath I-10
  - Begin widening WB lanes of City Park Lake bridge
FOR MORE INFORMATION

Website  Email
www.i10br.com  info@i10br.com
(also sign-up for e-news)

FOR MORE INFORMATION  I10BR.COM

DOTD begins improvements within Segment 1
Segment 1 of this interstate widening project extends from the I-10/I-110 interchange in downtown Baton Rouge eastward to include the Acadian Thruway interchange. Stage 1 construction within Segment 1 began in February 2023 and will continue through 2024. This work includes the permanent construction of a westbound portion of the I-10 bridge over City Park in Baton Rouge, the temporary widening of I-10 westbound from Acadian Thruway to I-110, and the creation of a service road on the westbound side extending Bradstock Avenue to Babylonia Drive. Stage 1 construction also includes permanent widening of the westbound flyover curve at I-110 towards the Mississippi River Bridge. The above-described work through the end of 2024 will be visible alongside I-10 through Baton Rouge, but is not expected to have significant impacts upon interstate traffic.

Learn More:  LEAVE A COMMENT  TRAFFIC CAMERAS

March 7, 2023 Open House Exhibits

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